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REMARKS

Favorable reconsideration is requested in view of the above amendments and following remarks. Claims 1-6 and 14-17 have been amended. The amendment to claims 5 and 15 are supported by the original disclosure, for example, at page 17, lines 2-6 of the specification. Claims 1-4, 6, 14 and 16-17 have been amended editorially. No new matter has been added. Claims 1-17 remain pending in the application.

Claim Objections

Claim 14 is objected to for informalities. Claim 14 has been amended, taking the issues noted in the objection into account.

Withdrawal of the objection is respectfully requested.

Claim Rejections – 35 USC § 101

Claims 1-5 are rejected under 35 USC 101 because the claimed invention is directed to non-statutory subject matter. Claims 1-3 recite an isolated polypeptide. Claims 4-5 recite an isolated DNA. Claims 1-5 are directed to statutory subject matter.

Withdrawal of the rejection is respectfully requested.

Claim Rejections – 35 USC § 112

Claims 1-17 are rejected under 35 USC 112, second paragraph, as being indefinite. Claim 1 recites an isolated polypeptide consisting of the amino acid sequence identified in (a) or (b). Claim 1(a) recites the amino sequence of SEQ ID NO: 1. Claim 5 recites an isolated DNA consisting of the nucleotide sequence identified in (a), (b) and (c). Claim 5(a) and (c) recite the nucleotide sequence of SEQ ID NO: 3. Claim 5(b) and claim 15(b) recite a nucleotide sequence that is capable of hybridizing, under stringent conditions, to a DNA having a nucleotide sequence that is complementary to the nucleotide sequence of SEQ ID NO: 3, the stringent conditions being washing with an aqueous solution consisting of 1.5 mM trisodium citrate, 15 mM sodium chloride and 0.1% sodium dodecyl sulfate at 65°C. Claims 15 and 16 depend from claim 14. Accordingly, Applicants respectfully submit that claims 1-17 are definite.

Enablement

Claims 1-17 are rejected under 35 USC 112, first paragraph, as failing to comply with the enablement requirement. As indicated above, claim 1 recites an isolated polypeptide consisting of the amino acid sequence identified in (a) or (b). Claim 1(a) recites the amino acid sequence of

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SEQ ID NO: 1. Claim 1(b) recites an amino acid sequence resulting from substitution, insertion, deletion, and/or addition of one amino acid in the amino acid sequence of SEQ ID NO: 1. Claim 1 further recites that the isolated polypeptide has amidase activity. Thus, claim 1 is limited to those polypeptides having amidase activities that are derived from SEQ ID NO: 1. Claim 5 recites an isolated DNA consisting of the nucleotide sequence identified in (a), (b) and (c). Claim 5 recites that the isolated DNA encodes a polypeptide having amidase activity. Claim 15 recites the use of a recombinant plasmid including a DNA consisting of the nucleotide sequence identified in (a), (b) and (c). Claim 15 also recites that the DNA included in the recombinant plasmid encodes a polypeptide having amidase activity. Thus, claims 5 and 15 likewise are limited to those polynucleotides encoding for polypeptides having amidase activities that are derived from SEQ ID NO: 3.

Accordingly, Applicants respectfully submit that claims 1-17 are commensurate in scope of the specification.

Deposit

Claims 3, 8, 11, 13 and 15 are rejected because the bacterial strains are not publicly available. To satisfy the deposit requirement for deposits made under the Budapest Treaty, the Examiner required a statement that the specific strains have been deposited under the Budapest Treaty and that the strain will be available to the public under the conditions specified in 37 CFR 1.808. A Communication Regarding Deposit is submitted herewith. Applicants submit that the Communication satisfies the deposit requirements under 37 CFR §§ 1.803-1.808.

Based on the forgoing, Applicants respectfully request withdrawal of the enablement rejection.

Written Description

Claims 1-17 are rejected under 35 USC 112, first paragraph, as failing to comply with the written description requirement. Regarding claims 1-3 and 12-16, claim 1 is limited to those polypeptides having amidase activities that are derived from SEQ ID NO: 1. Regarding claims 4-11, 15 and 17, claims 5 and 15 are limited to those polynucleotides encoding for polypeptides having amidase activities that are derived from SEQ ID NO: 3. The polypeptides of claim 1 are described on page 15, lines 1-7 of the specification. The polynucleotides of claims 5 and 15 are described on page 17, lines 7-17 of the specification. Accordingly, Applicants respectfully submit that claims 1-17 comply with the written description requirement.

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Claim Rejections – 35 USC § 102

Claims 1, 4-7, 9, 10, 14, 15 and 17 are rejected under 35 USC 102(e) as being anticipated by US Publication No. 2004/0023257 (Barton et al.). Applicants respectfully traverse the rejection.

Barton et al. disclose amino acid sequences of polypeptides having amidase activity. The reference further discloses nucleotide sequences of polynucleotides encoding polypeptides that have amidase activity.

However, Barton et al. do not disclose an isolated polypeptide consisting of the amino acid sequence of SEQ ID NO: 1 or an amino acid sequence resulting from substitution, insertion, deletion, and/or addition of one amino acid in the amino acid sequence of SEQ ID NO: 1 as recited in claim 1.

Barton et al. further do not disclose the isolated DNA consisting of the nucleotide sequence of SEQ ID NO: 3, a nucleotide sequence that is capable of hybridizing under stringent conditions to a DNA having the nucleotide sequence that is complementary to the nucleotide sequence of SEQ ID NO: 3, the stringent conditions being washing with an aqueous solution consisting of 1.5 mM trisodium citrate, 15 mM sodium chloride and 0.1% sodium dodecyl sulfate at 65°C, or a nucleotide sequence resulting from substitution, insertion, deletion, and/or addition of one nucleotide in the nucleotide sequence of SEQ ID NO: 3.

Accordingly, Barton et al. do not anticipate claims 1 and 5 and their dependent claims.

Claims 1, 2, 4-7, 9, 10, 12 and 14-17 are rejected under 35 USC 102(b) as being anticipated by Archives of Biochemistry and Biophysics, Vol. 338, No. 1, pp. 22-28 (Takegawa et al.). Applicants respectfully traverse the rejection.

Takegawa et al. disclose the nucleotide sequence of the gene encoding endo- β -N-acetylglucosaminidase from *Arthrobacter protophormiae*.

However, Takegawa et al. do not disclose an isolated polypeptide consisting of the amino acid sequence of SEQ ID NO: 1 or an amino acid sequence resulting from substitution, insertion, deletion, and/or addition of one amino acid in the amino acid sequence of SEQ ID NO: 1 as recited in claim 1.

Takegawa et al. further do not disclose the isolated DNA consisting of the nucleotide sequence of SEQ ID NO: 3, a nucleotide sequence that is capable of hybridizing under stringent conditions to a DNA having the nucleotide sequence that is complementary to the nucleotide

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sequence of SEQ ID NO: 3, the stringent conditions being washing with an aqueous solution consisting of 1.5 mM trisodium citrate, 15 mM sodium chloride and 0.1% sodium dodecyl sulfate at 65°C, or a nucleotide sequence resulting from substitution, insertion, deletion, and/or addition of one nucleotide in the nucleotide sequence of SEQ ID NO: 3.

Accordingly, Takegawa et al. do not anticipate claims 1 and 5 and their dependent claims.

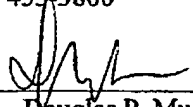
Favorable reconsideration in the form of a notice of allowance is respectfully requested. Any questions regarding this communication can be directed to the undersigned attorney, Douglas P. Mueller, Reg. No. 30,300, at (612) 455-3804.



Respectfully submitted,

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Dated: July 21, 2009

By: 
Douglas P. Mueller
Reg. No. 30,300

DPM/ym

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JUL 21 2009

S/N 10/587,085

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Yanagisawa et al.	Examiner:	Sheridan Swope
Serial No.:	10/587,085	Group Art Unit:	1652
Filed:	July 21, 2006	Docket No.:	20162.0021USWO
Title:	POLYPEPTIDE HAVING AMIDASE ACTIVITY AND GENE THEREOF		

CERTIFICATE UNDER 37 CFR 1.6(d):

I hereby certify that this paper is being transmitted by facsimile to the U.S. Patent and Trademark Office on July 21, 2009

By: 

Name:

Justine Suleski

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

COMMUNICATION REGARDING DEPOSIT

Dear Sir:

The following microorganisms have been deposited with the National Institute of Advanced Industrial Science and Technology, AIST Tsukuba Central 6, 101, Higashi 1-chome, Tsukuba-shi, Ibaraki 305-8566, JAPAN, an international depository authority recognized by the Budapest Treaty.

Arthrobacter sp. KNK 1101J

International depository authority: National Institute of Advanced Industrial Science and Technology

Date of deposition: October 22, 2003

Accession Number: FERM BP-10192

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Escherichia coli HB101 (pHA002)

International Depository Authority: National Institute of Advanced Industrial Science and Technology

Date of deposition: January 22, 2004

Accession Number: FERM BP-10193

The applicants affirm that all restrictions imposed by the depositor on the availability to the public of the deposited biological material will be irrevocably removed upon the granting of the patent except as permitted under 37 CFR 1.808(b).



Respectfully submitted,

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Dated: July 21, 2009

By: 

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審式8(第7条第1項関係)

「特許手続上の微生物の寄託等の国際的承認
に関するブダペスト条約」

下記国際寄託当局によって規則7.1に従い
発行する。

BUDAPEST TREATY ON THE INTERNATIONAL
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS
FOR THE PURPOSES OF PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT
issued pursuant to Rule 7.1 by the INTERNATIONAL
DEPOSITARY AUTHORITY identified at the bottom of this page.

原寄託についての受託証

氏名 (名称)

寄託者

株式会社カネカ
代表取締役 武田 正利 殿

あて名

〒 530-8298
大阪市北区中之島3-2-4

I. 微生物の表示	
託者が付した識別のための表示 Arthrobacter sp.KNK1101J	(受託番号) FERM BP-10192
II. 科学的性質及び分類学上の位置	
I欄の微生物には、次の事項を記載した文章が添付されていた。 <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類学上の位置	
III. 原寄託申請の受託	
本国際寄託当局は、 年 月 日に受領したI欄の微生物を受託する。	
IV. 移管申請の受託	
本国際寄託当局は、平成 15 年 10 月 22 日(国内受託日)に受託したI欄の微生物を受託する。 (平成 15 年 10 月 22 日に寄託されたFERM P- 19564 より移管)	
V. 国際寄託当局	
独立行政法人産業技術総合研究所 特許生物寄託センター	
名称	International Patent Organism Depositary National Institute of Advanced Industrial Science and Technology センター長 山岡 正 Dr.Masakazu Yamaoka, Director
あて名	日本国 茨城県つくば市東1丁目1番地1 中央第6 (郵便番号305-8566) AIST Tsukuba Central 6, 1-1, Higashi 1-chome Tsukuba-shi, Ibaraki-ken 305-8566 Japan

平成 16 年 (04) 12 月 24 日

書式8(第7条第1項関係)

「特許手続上の微生物の寄託等の国際的承認
に関するブダペスト条約」

下記国際寄託当局によって規則7.1に従い
発行する。

BUDAPEST TREATY ON THE INTERNATIONAL
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS
FOR THE PURPOSES OF PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT
issued pursuant to Rule 7.1 by the INTERNATIONAL
DEPOSITARY AUTHORITY identified at the bottom of this page.

原寄託についての受託証

氏名(名称)

寄託者

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代表取締役 武田 正利 殿

あて名

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大阪府北区中之島3-2-4

I. 微生物の表示	
託者が付した識別のための表示	(受託番号)
E. coli HB101 (pHA002)	PERM BP-10193
II. 科学的性質及び分類学上の位置	
1種の微生物には、次の事項を記載した文章が添付されていた。	
<input checked="" type="checkbox"/> 科学的性質	
<input checked="" type="checkbox"/> 分類学上の位置	
III. 原寄託申請の受託	
本国際寄託当局は、 年 月 日に受領した1種の微生物を受託する。	
IV. 移管申請の受託	
本国際寄託当局は、平成 16 年 1 月 22 日(国内受託日)に受託した1種の微生物を受託する。	
(平成 16 年 1 月 22 日に寄託された PERM P-19646 より移管)	
V. 国際寄託当局	
独立行政法人産業技術総合研究所 特許生物寄託センター	
名称	International Patent Organism Depositary National Institute of Advanced Industrial Science and Technology
	センター長 山岡 正樹
	Dr. Masakazu Yamaoka, Director
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平成 16 年 (04) 12 月 24 日	